

CLAIMS

We claim:

1. A framework that can be used for storage comprising:

recessed structural beams having a return flange at their base, a recessed flange at their top, and a rib there between, said recessed structural beams being positioned horizontally and parallel with the ground to define parallelograms there between,

at least four parallel vertical posts, each extending at a right angle to said recessed structural beams and being positioned at each of the corners of the parallelogram formed by said recessed structural beams,

at least three shelf members shaped substantially in the form of said parallelograms formed by said recessed structural beams,

said recessed structural beams being removeably associated to vertical posts to form four corners, thereby enabling said shelf members to be supported by said recessed structural beams and removeably secured by said recessed flanges of said recessed structural beams.

2. A framework as defined in claim 1 wherein said recessed structural beams include:

said horizontal return flange on the base of each of said recessed structural beams extending the full length of said recessed structural beams.

3. A framework as defined in claim 1 wherein said recessed structural beams include:

said recessed flange at top of said recessed structural beams taking the form of an "L" shape where the base of said "L" is parallel to the horizontal return flange located at the base of said recessed structural beams, the recessed flange being chamfered at both ends of said recessed structural beams enabling said recessed structural beams to create a corner fit.

4. A framework as defined in claim 1 wherein said recessed structural beams include:

said rib strategically positioned between said recessed structural beams' base and top, which extends the full length of said recessed structural beams.

5. A framework as defined in claim 1 wherein said recessed structural beams include:
a variable number of mushroom shaped nubs attached to the ends of said recessed structural beams proportionately located near the base and top in a combination that will enable the assembly of said recessed structural beams to said vertical posts.

6. A framework as defined in claim 1 wherein said shelf member contains a slight taper from the base to the top of said shelf member so that the distance from the end of the shelf member base to the vertical centerline of the shelf member is greater than the distance from the end of the shelf member top to the vertical centerline of the shelf member, said taper allows clearance for various attachments.

7. A framework as defined in claim 1 wherein said vertical posts encompass two perpendicular planes which meet at a right angle, said posts are orientated to create a corner open to said recessed structural beams, and each plane of said vertical posts contain key shaped apertures spaced from the top of said vertical posts to the base of said vertical posts enabling said vertical posts to fasten to said recessed structural beams.

8. A framework according to claim 1 which is assembled by way of:
orientating the "L" shaped recessed flange on each of said recessed structural beams toward the center of the parallelogram created by said four recessed structural beams,
aligning said nubs on each of said recessed structural beams with said key hole shaped apertures on vertical posts,

inserting said nubs into the largest diameter portion of said apertures of said vertical posts which enables the nubs to securely fasten said recessed structural beams to said vertical

posts by dropping vertically towards the smaller diameter portion of the aperture thereby creating a tight fit, this insertion of said nubs with said apertures is executed at both ends of said recessed structural beams with corresponding vertical posts,

said shelf member is removeably secured to recessed structural beams by resting on said recessed flanges of each of four said recessed structural beams, which combines with said taper allowing slight clearance at the top of said shelf member for various attachments.

9. An attachment for use with the framework described in claim 1 including:

an upper hook enabling the attachment to be removeably attached to the recessed flange, namely the vertical portion of the “L” shaped recessed flange on the recessed structural beam, via the taper created in the shelf member as described in claim 6.

10. A framework that can be used for storage comprising:

recessed structural beams having a return flange at their base and a recessed flange at their top, said recessed structural beams being positioned horizontally and parallel with the ground to define parallelograms there between,

at least four parallel vertical posts, each extending at a right angle to said recessed structural beams and being positioned at each of the corners of the parallelogram formed by said recessed structural beams,

at least three shelf members shaped substantially in the form of said parallelograms formed by said recessed structural beams,

said recessed structural beams being removeably associated to vertical posts to form four corners, thereby enabling said shelf members to be supported by said recessed structural beams and removeably secured by said recessed flanges of said recessed structural beams.

11. A framework as defined in claim 10 wherein said recessed structural beams include:

said horizontal return flange on the base of each of said recessed structural beams extending the full length of said recessed structural beam.

12. A framework as defined in claim 10 wherein said recessed structural beams include:

said recessed flange at top of said recessed structural beams taking the form of an “L” shape where the base of said “L” is parallel to the horizontal return flange located at the base of said recessed structural beams, the recessed flange being chamfered at both ends of said recessed structural beams enabling said recessed structural beams to create a corner fit.

13. A framework as defined in claim 10 wherein said recessed structural beams include:

a variable number of mushroom shaped nubs attached to the ends of said recessed structural beams proportionately located near the base and top in a combination that will enable the assembly of said recessed structural beams to said vertical posts.

14. A framework as defined in claim 10 wherein said shelf member contains a slight taper from the base to the top of said shelf member so that the distance from the end of the shelf member base to the vertical centerline of the shelf member is greater than the distance from the end of the shelf member top to the vertical centerline of the shelf member, said taper allows clearance for various attachments when associated with recessed structural beam.

15. A framework as defined in claim 10 wherein said vertical posts encompass two perpendicular planes which meet at a right angle, said posts are orientated to create a corner open to said recessed structural beams, and each plane of said vertical posts contain key shaped

apertures spaced from the top of said vertical posts to the base of said vertical posts enabling said vertical posts to fasten to said recessed structural beams.

16. A framework according to claim 10 which is assembled by way of:

orientating the “L” shaped recessed flange on each of said recessed structural beams toward the center of the parallelogram created by said four recessed structural beams,

aligning said nubs on each of said recessed structural beams with said key hole shaped apertures on vertical posts,

inserting said nubs into the largest diameter portion of said apertures of said vertical posts which enables the nubs to securely fasten said recessed structural beams to said vertical posts by dropping vertically towards the smaller diameter portion of the aperture thereby creating a tight fit, this insertion of said nubs with said apertures is executed at both ends of said recessed structural beams with corresponding vertical posts,

said shelf member is removeably secured to recessed structural beams by resting on said recessed flanges of each of four said recessed structural beams, which combines with said taper allowing slight clearance at the top of said shelf member for various attachments.

17. An attachment for use with the framework described in claim 10 including:

an upper hook enabling the attachment to be removeably attached to the recessed flange, namely the vertical portion of the “L” shaped recessed flange on the recessed structural beam, via the taper created in the shelf member as described in claim 14.

18. A framework that can be used for storage comprising:

standard structural beams having an angled return flange at their base, an angled standard flange at their top, and a rib there between, said standard structural beams being positioned horizontally and parallel with the ground to define parallelograms there between,

at least four parallel vertical posts, each extending at a right angle to said standard structural beams and being positioned at each of the corners of the parallelogram formed by said standard structural beams,

at least three shelf members shaped substantially in the form of said parallelograms formed by said standard structural beams,

said standard structural beams being removeably associated to vertical posts to form four corners, thereby enabling said shelf members to be supported by said standard structural beams and removeably secured by said standard angled flanges of said standard structural beams.

19. A framework as defined in claim 18 wherein said standard structural beams include:

said rib strategically positioned between said standard structural beams' base and top, which extends the full length of said standard structural beams.

20. A framework as defined in claim 18 wherein said standard structural beams include:

said angled return flange so that the beams contain an acute angle of approximately 85 degrees on the base of each of said standard structural beams extending the full length of said standard structural beams.

21. A framework as defined in claim 18 wherein said standard structural beams include:

said standard angled flange at top of said standard structural beams so that the beams contain an acute angle of approximately 85 at the top of each said standard structural beams extending the full length of said standard structural beams.

22. A framework as defined in claim 18 wherein said standard structural beams include:

a variable number of mushroom shaped nubs attached to the ends of said standard structural beams proportionately located near the base and top in a combination that will enable the assembly of said standard structural beams to said vertical posts.

23. A framework as defined in claim 18 wherein said vertical posts encompass two perpendicular planes which meet at a right angle, said posts are orientated to create a corner open to said standard structural beams, and each plane of said vertical posts contain key shaped apertures spaced from the top of said vertical posts to the base of said vertical posts enabling said vertical posts to fasten to said standard structural beams.

24. A framework according to claim 18 which is assembled by way of:
orientating the standard structural beams so that the flanges are directed toward the center of the parallelogram created by said four standard structural beams,
aligning said nubs on each of said standard structural beams with said key hole shaped apertures on vertical posts,

inserting said nubs into the largest diameter portion of said apertures of said vertical posts which enables the nubs to securely fasten said standard structural beams to said vertical posts by dropping vertically towards the smaller diameter portion of the aperture thereby creating a tight fit, this insertion of said nubs with said apertures is executed at both ends of said standard structural beams with corresponding vertical posts,

said shelf member is removeably secured to standard structural beams by resting on said standard angled flange of each of four said standard structural beams.

25. A recessed structural beam for use with a storage unit comprising:

a horizontal return flange on the base of said recessed structural beam extending the full length of said recessed structural beam,

a rib strategically positioned between said recessed structural beam's base and top, which extends the full length of said recessed structural beam,

a recessed flange at top of said recessed structural beam taking the form of "L" shape where the base of said "L" is parallel to the horizontal return flange located at the base of said recessed structural beam, the recessed flange is chamfered at both ends of said recessed structural beam enabling said recessed structural beams to create a corner fit,

a variable number of mushroom shaped nubs attached to the ends of said recessed structural beam proportionately located near the base and top in a combination that will enable the assembly of said recessed structural beam to said vertical posts.

26. A recessed structural beam for use with a storage unit comprising:

a horizontal return flange on the base of said recessed structural beam extending the full length of said recessed structural beam,

a recessed flange at top of said recessed structural beam taking the form of "L" shape where the base of said "L" is parallel to the horizontal return flange located at the base of said recessed structural beam, the recessed flange is chamfered at both ends of said recessed structural beam enabling said recessed structural beams to create a corner fit,

a variable number of mushroom shaped nubs attached to the ends of said recessed structural beam proportionately located near the base and top in a combination that will enable the assembly of said recessed structural beam to said vertical posts.

27. A standard structural beam for use with a storage unit comprising:

an angled return flange so that the beam forms an acute angle of approximately 85

degrees on the base of said standard structural beam extending the full length of said standard structural beam,

a rib strategically positioned between said standard structural beam's base and top, which extends the full length of each of said standard structural beam,

a standard angled flange at top of said standard structural beam so that the beam forms an acute angle of approximately 85 degrees at the top of said standard structural beam extending the full length of said structural beam, said angled flange is chamfered at both ends of said standard structural beam enabling said standard structural beams to create a corner fit,

a variable number of mushroom shaped nubs attached to the ends of said standard structural beam proportionately located near the base and top in a combination that will enable the assembly of the shelf.